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CALIFORNIA EARTH SCIENCE CORPORATION

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September 5, 1973

CONTRACT NAS 2-7698
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Fault Tectonics and Earthquake Hazards in the Peninsular
Ranges, Southern California, EREP Investigation 463

NASA, Ames Research Center
Mail Code 241-1
Moffett Field, CA 94035

Attention: Mr. Gabriel Fox
Contracting Officer

Gentlemen:

California Earth Science Corporation (CalESCO) is pleased to submit its 3rd
Monthly Progress Report on the application of Skylab imagery to analysis of
fault tectonics and earthquake hazards in the Peninsular Ranges, southern
California under NASA contract No. NAS 2-7698.

Summary Outlook

The principal plans for the immediate future are to continue analysis of images
from SL-1/SL-2. The milestone plan provides a time-oriented schedule of the
entire effort to be performed.

Significant Progress

1. The published literature, geologic maps and reports pertaining to the fault
tectonics, record of earthquakes, and geologic data on the history and mag-
nitude of fault slip have been reviewed. These data will provide the back-
ground for a comparison of the appearance of different faults and tectonic
features on the Skylab imagery.
2. A map of southern California has been prepared showing all recently active
faults, traces of ground rupture and other information pertinent to the
interpretation of SL imagery.
3. Aircraft and ERTS photographs of the test site are being identified, and
obtained.

E73-10999) FAULT TECTONICS AND
EARTHQUAKE HAZARDS IN THE PENINSULAR
RANGES, SOUTHERN CALIFORNIA Monthly
Progress (California Earth Science Corp.,
Santa Monica.) 3 p HC \$3.00 CSCL 08E

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4. A subcontract with the RAND Corporation was signed on 6 August 1973.
5. Imagery from SL1/SL2 190A camera was received in the form of 70 mm positive transparencies. At the time of writing, 9 x 9 transparencies have not been received. Screening film of 192 imagery was also received.
6. Analysis of imagery received to date has been initiated. Parts of the San Andreas, Garlock, San Jacinto and Blue Cut faults are clearly shown. Much of southwestern California was obscured by cloud cover.
7. Negatives of the 190A positive transparencies have been made, and black and white film calibrations have been accomplished on film to be used as intermediate separations.
8. Selected RB57 photos of the test site have been received from the NASA data facility in Houston.

Expected Accomplishments, Current Month

1. Analysis of SL1/SL2 imagery will be continued.
2. Psuedocolor transformations from selected bands will be produced.
3. The supporting studies will be continued.
4. Tapes of selected 192 data will be ordered.

Travel Summary and Plans

Dr. Donald L. Lamar was in Washington, D.C. during September on other business. However, he discussed the project and exchanged information with Dr. Paul D. Lowman. Plans will be made for field checks during September.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORPORATION

Paul M. Merifield
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